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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/996,120	11/28/2001	Kwong-Yu Chan	609920600024	1508	
24325	7590 05/11/2006		EXAM	EXAMINER	
STEPHEN D. SCANLON			WONG,	WONG, EDNA	
JONES DAY 901 LAKESII	DE AVENUE		ART UNIT	PAPER NUMBER	
CLEVELANI	O, OH 44114		1753		
			DATE MAILED: 05/11/2006	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applica	ation No.	Applicant(s)	
Office Action Summary		09/996	09/996,120 CHAN ET AL.		
		Examin	ier	Art Unit	
		Edna W		1753	
Period fo	The MAILING DATE of this commun or Reply	ication appears on t	the cover sheet w	vith the correspondence a	ddress
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINISTRICT IN THE MINISTRICT	AILING DATE OF of 37 CFR 1.136(a). In no nunication. atutory period will apply and will, by statute, cause the a	THIS COMMUN event, however, may a d will expire SIX (6) MO application to become A	ICATION. reply be timely filed NTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).	
Status					
<u> </u>	Responsive to communication(s) file This action is FINAL . Since this application is in condition closed in accordance with the practic	2b)⊠ This action is for allowance exce	pt for formal mat	•	ne merits is
Dienoeiti	on of Claims	·	•	,	
5)□ 6)□ 7)□ 8)⊠ Applicati	Claim(s) <u>1-48</u> is/are pending in the a 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-48</u> are subject to restriction of Papers The specification is objected to by the	re withdrawn from on and/or election re	requirement.		
	The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	ction to the drawing(s the correction is requ	b) be held in abeya uired if the drawing	nnce. See 37 CFR 1.85(a). g(s) is objected to. See 37 C	
Priority ι	ınder 35 U.S.C. § 119				
a)[Acknowledgment is made of a claim and all b) Some * c) None of: 1. Certified copies of the priority and Certified copies of the priority and Copies of the certified copies of application from the Internation see the attached detailed Office actions.	documents have be documents have be of the priority docur nal Bureau (PCT R	een received. een received in A ments have beer kule 17.2(a)).	Application No n received in this Nationa	ıl Stage
2)	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P' nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date		Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PT 	⁻ O-152)

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Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

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- Claims 1-5 and 29-31, drawn to a method for catalytically oxidizing organic molecules, classified in class 205, subclass 421.
- II. Claims 6-22 and 32-48, drawn to an apparatus for catalyzing the oxidation of organic molecules and an apparatus for catalyzing the oxidation of glucose molecules, classified in class 204, subclass 194.
- III. Claims 23-25, drawn to an electrode structure, classified in class 204, subclass 291.
- IV. Claims 26-28, drawn to an electrode structure, classified in class 204, subclass 291.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the process as claimed can be practiced by another and materially different apparatus such as a non-electrode apparatus.

Inventions III, IV and I are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the

process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the process for using the product as claimed can be practiced with another materially different product such as electrodes that are not platinum wires or nickel current collectors.

Inventions II and III, IV are related as combination and subcombination.

Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not require the platinum wire of Group III or the nickel current collector of Group IV. The subcombination has separate utility such as being used in photocatalytic reactions.

Inventions III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different designs, modes of operation, and effects.

Group III is directed to an electrode comprising a platinum wire having a coating,

said coating comprising a discrete mixture of platinum particles and cobalt particles; and an electrode comprising a platinum wire having a coating, said coating comprising cobalt particles.

Group IV is directed to an electrode comprising a nickel current collector having a coating, said coating comprising a mixture of activated carbon, acetylene black, PTFE and a catalyst, said catalyst comprising a discrete mixture of platinum particles and cobalt particles.

The electrodes have different compositions.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

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requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edna Wong whose telephone number is (571) 272-

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1349. The examiner can normally be reached on Mon-Fri 7:30 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edna Wong
Primary Examiner
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